

**Work Order ID 69117**

Monday, May 02, 2011 12:23:35 PM



Page 1

Item ID: D350-689-043

Accept



Setup Start



Revision ID:

Stop



Item Name: Dual High Back Seat Assembly

Start Date: 5/2/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 5/11/2011 Req'd Qty: 1.00

Customer:

Reference:

Approvals:

Process Plan:

*MF*

Date:

*05-02*  
*11-04-20*

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

Draw Nbr

Revision Nbr

DSI 9498

A

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile and create labels per PPP D350-689-043 CHG002

*N/A* *at 11/05/03*

110

0.00



Large Fab

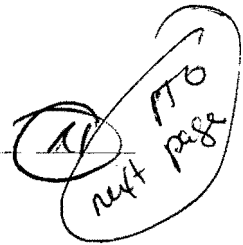
Large Fab

Memo

0.00

Large Fab

Assemble as per IIN 350-689

*EL 11-5-9*  
*EF 11/05/10*

120

0.00



QC5- Inspect part completeness to step on W/O

QC

Memo

0.00

Quality Control

*8 11/05/12*

# Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: D350-689-043 PAR #: \_\_\_\_\_ Fault Category: Large Tab NCR: Yes ☒ No ☐ DQA: AS Date: 11-05-17  
 Resolution: Rework Disposition: Rework QA: N/C Closed: OK Date: 11/05/18

NCR: <u>69117</u>		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			
11/05/18	110	1 rivet MS20600 AD4-3 was change for MS20600 AD4-4 H 117601 Rivet too short	11.05.12 OS1042	PER DESCRIPTION OF NC. Inherent variation with material	11/05/12	8 11/05/12	11.05.12 OS1042	11/05/12

NOTE: Date & initial all entries

**Work Order ID 69117**

Monday, May 02, 2011 12:23:35 PM

Page 2

Item ID: D350-689-043

Accept

Setup Start

Revision ID:

Stop

Item Name: Dual High Back Seat Assembly

Start Date: 5/2/2011 Start Qty: 1.00

Cust Item ID:

Required Date: 5/11/2011 Req'd Qty: 1.00

Customer:

Reference:

Run Start

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Stop

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

130

Grey Sandtex(Ref:4.3.5.6) per QSI005 4.3

0.00



Powdercoat

Powder Coating

Memo

START TIME:

OVEN TEMPERATURE:

FINISH TIME:

11:00  
3200F  
11:30IX ~~✓~~ M-L 11/05/12

140

QC3- Inspect Part Finish

0.00



QC

Quality Control

Memo

0.00

1 BR 11-5-12.

150

Large Fab

0.00



Large Fab

Large Fab

Memo

Assemble as per IIN 350-689

0.00

E/S 11/05/12

**Work Order ID 69117**

Monday, May 02, 2011 12:23:35 PM



Page 3

Item ID: D350-689-043

Accept



Setup Start



Revision ID:

Stop



Item Name: Dual High Back Seat Assembly

Start Date: 5/2/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 5/11/2011 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Stop



QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

160



QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

8/10/12

Memo

0.00



170



Packaging

Packaging

Identify as per dwg &amp; Stock Location: \_\_\_\_\_

0.00

Memo

0.00

PPP 6/9/13

P 6/10/12 (1)

180



QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

OK 11/05/13

W 11/05/13

Monday, May 02, 2011 12:23:30 PM

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**Required Qty: 1.00**

**Comments:** IPP Rev:A 08-12-24 new issue DD verified by:ECI PP Rev:B as per  
DSI 9498 DD 10.02.12 verified by:JLM

### Back Panel

B 68710 A1

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

Monday, May 02, 2011 12:23:30 PM

Page 2

Work Order ID: 69117

Parent Item: D350-689-043

Parent Item Name: Dual High Back Seat Assembly

Start Date: 5/2/2011

Required Date: 5/11/2011

Start Qty: 1.00

Required Qty: 1.00

D3024-1  
Spacer

Manufactured No

150 Each

15.0000

3

3

Location

Loc Qty

Loc Code

ST030

15

50343

2

68734

13

D3031-1  
Loop

Manufactured No

150 Each

1.0000

2

2

Location

Loc Qty

Loc Code

ST031

1

43395

1

D3808-041  
Seat Rail Assembly

Manufactured No

150 Each

5.0000

2

2

Location

Loc Qty

Loc Code

ST262

5

41238

1

44695

4

D3809-1  
Sliding Block

Manufactured No

150 Each

12.0000

4

4

Location

Loc Qty

Loc Code

ST084

12

44696

12

*Handwritten:* 5/5/12

*Handwritten:* 5/11/12  
B8621(22)

*Handwritten:* 5/11/12

*Handwritten:* 5/11/12

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



# Picklist Print

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Page 3

Work Order ID: 69117

Parent Item: D350-689-043

Parent Item Name: Dual High Back Seat Assembly

Start Date: 5/2/2011

Required Date: 5/11/2011

Start Qty: 1.00

Required Qty: 1.00

MS20600-AD4W2

Purchased

No

110

Each

260.0000

40

40



Rivet

Location

Loc Qty

Loc Code

ST321

260

116391

100

116471

4

116805

100

117317

56

15

25

MS20600-AD4W3

Purchased

No

150

Each

1,191.000

6

6



Cherry Rivets

Location

Loc Qty

Loc Code

ST321

866

111636

366

117505

500

WA018

325

107939

325

6

MS21042L3

Purchased

No

150

Each

2,104.000

17

17



Nut

Location

Loc Qty

Loc Code

ST300

2104

116391

11

116540

527

116549

766

117441

800

17

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

# Picklist Print

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Page 4

Work Order ID: 69117

Parent Item: D350-689-043

Parent Item Name: Dual High Back Seat Assembly

Start Date: 5/2/2011

Required Date: 5/11/2011

Start Qty: 1.00

Required Qty: 1.00

MS21042L4 Purchased No  
Nut



150 Each 4,748.000 6 6



*5/5/12*

Location	Loc Qty	Loc Code
ST300	4748	
116823	1748	
117441	3000	

*6*

MS24693-S272 Purchased No  
Screw



150 Each 65.0000 4 4



*5/5/12*

Location	Loc Qty	Loc Code
ST288	65	
116391	15	
116737	50	

*4*

MS24694-S148 Purchased No  
Screw



150 Each 46.0000 4 4



*5/5/12*

Location	Loc Qty	Loc Code
ST289A	46	
108946	2	
108960	44	

*2*

MS24694-S3 Purchased No  
Screw



150 Each 43.0000 8 8



*5/5/12*

Location	Loc Qty	Loc Code
ST289	43	
108936	31	
112794	12	

*8*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

Monday, May 02, 2011 12:23:31 PM

Page 5

Work Order ID: 69117

Parent Item: D350-689-043

Parent Item Name: Dual High Back Seat Assembly

Start Date: 5/2/2011

Required Date: 5/11/2011

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-17 Purchased No  
Screw

150 Each 46.0000



4 4  
4/5/12

Location Loc Qty Loc Code

ST292 46

11540 46

MS27039-1-19 Purchased No  
Screw

150 Each 102.0000



6 6  
4/5/12

Location Loc Qty Loc Code

ST292 102

100089 2

112794 100

MS27039-4-21 Purchased No  
Screw

150 Each 36.0000



6 6  
4/5/12

Location Loc Qty Loc Code

ST293 36

114055 1

116845 35

NAS1149D0332J Purchased No  
Washer

150 Each 2,779.000



17 17  
4/5/12

Location Loc Qty Loc Code

FP-B 4

117010 4

ST297 2000

117087 2000

ST298 775

117291 775

17

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Shop Packet Print

Page 5

# Picklist Print

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Page 6

Work Order ID: 69117



Parent Item: D350-689-043



Parent Item Name: Dual High Back Seat Assembly

Start Date: 5/2/2011

Required Date: 5/11/2011

Start Qty: 1.00

Required Qty: 1.00

NAS1149D0432J

Purchased

No

150

Each

248.0000

6

6



WASHER

*EP 5/05/12*

Location

Loc Qty

Loc Code

ST298

248

114718

48

116583

200

*6*

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D350-689 REV. A  
AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D350-689 REV 0

REF TCCA STC: SH02-33  
REF FAA STC: SR01620NY  
REF EASA STC: EASA.IM.R.S.01453  
REF BRAZILIAN STC: 2005S03-09

## PURPOSE:

TO UPDATE THE PARTS LIST AND THE WEIGHT AND BALANCE TABLE IN IIN-D350-689 REV A AND ICA-D350-689 REV 0.

## CHANGE:


FOR D350-689-011 AT CHANGE 003, D350-689-021 AT CHANGE 002, D350-689-041 AT CHANGE 002 AND D350-689-043 AT CHANGE 002, QTY (6) OF: MS27039-1-19 SCREW; MS21042L3 NUT & AN960JD10L WASHER REPLACED WITH QTY (6) OF: MS27039-4-21 SCREW; MS21042L4 NUT & NAS1149D0432J WASHER RESPECTIVELY. FIGURE 6 (PG 9) OF IIN-D350-689 MODIFIED PER SHT 2 OF THIS SERVICE INSTRUCTION. THE HARDWARE SECTION OF THE PARTS LIST IN SECTION 5 (PG 10) OF IIN-D350-689 REV A & SECTION 25.6 (PG 31) OF ICA-350-689 REV 0 IS AMENDED AS FOLLOWS:

Qty -011	Qty -013	Qty -021	Qty -023	Qty -041	Qty -043	Part Number	Description
X						D350-689-011	DUAL HIGH BACK SEAT INSTALLATION, LH
1	X					D350-689-013	FLOOR PROVISIONS KIT
		X				D350-689-021	DUAL HIGH BACK SEAT INSTALLATION, LH (REF DSI 9419)
		1	X			D350-689-023	ENERGY ATTENUATING FLOOR PROVISION KIT (REF DSI 9419)
1				X		D350-689-041	DUAL HIGH BACK SEAT ASSEMBLY
		1			X	D350-689-043	DUAL HIGH BACK SEAT ASSEMBLY (REF DSI 9419)
	6			17	17	NAS1149D0332J	WASHER (OR AN960JD10L)
			9			NAS1149D0363J	WASHER (OR AN960JD10)
				6	6	NAS1149D0432J	WASHER (OR AN960JD416)
				3	3	AN3-12A	BOLT
16						MS20426AD3-6	RIVET
		14				MS20426AD4-5	RIVET
17						MS20426AD4-8	RIVET
18		34				MS20470AD4-5	RIVET
2		18				MS20470AD4-6	RIVET
30		32				MS20470AD5-6	RIVET
				40	40	MS20600AD4W2	RIVET
				6	6	MS20600AD4W3	RIVET (REF DSI 9349)
8						MS21059L3	NUTPLATE
6						MS27039-1-10	SCREW
				4	4	MS27039-1-17	SCREW
				6	6	MS27039-1-19	SCREW
				6	6	MS27039-4-21	SCREW
				4	4	MS24693-S272	SCREW
2						MS24693-S273	SCREW
					8	MS24694-S3	SCREW
		9				MS24694-S50	SCREW
				4		MS24694-S148	SCREW
		9	17	17		MS21042L3	NUT (OR MS21042-3)
			6	6		MS21042L4	NUT (OR MS21042-4)

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED  
BY:   
D. SHEPHERD (DE # 02)

DATE: 10.01.21  
CERT. NO.: SH02-33  
ISSUE NO.: 1

A	NEW ISSUE.	JPH	10.01.21
REV.	DESCRIPTION	BY	DATE
DESIGN	 <b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	DRAWING NO.	
DRAWN		REV. A	
CHECKED		DSI 9498	
MFG. APPR.		SHEET 1 OF 2	
APPROVED		TITLE	
DE APPR.	SEAT REINF; IIN & ICA UPDATE	SCALE	
DATE	10.01.21	NTS	
COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.			

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

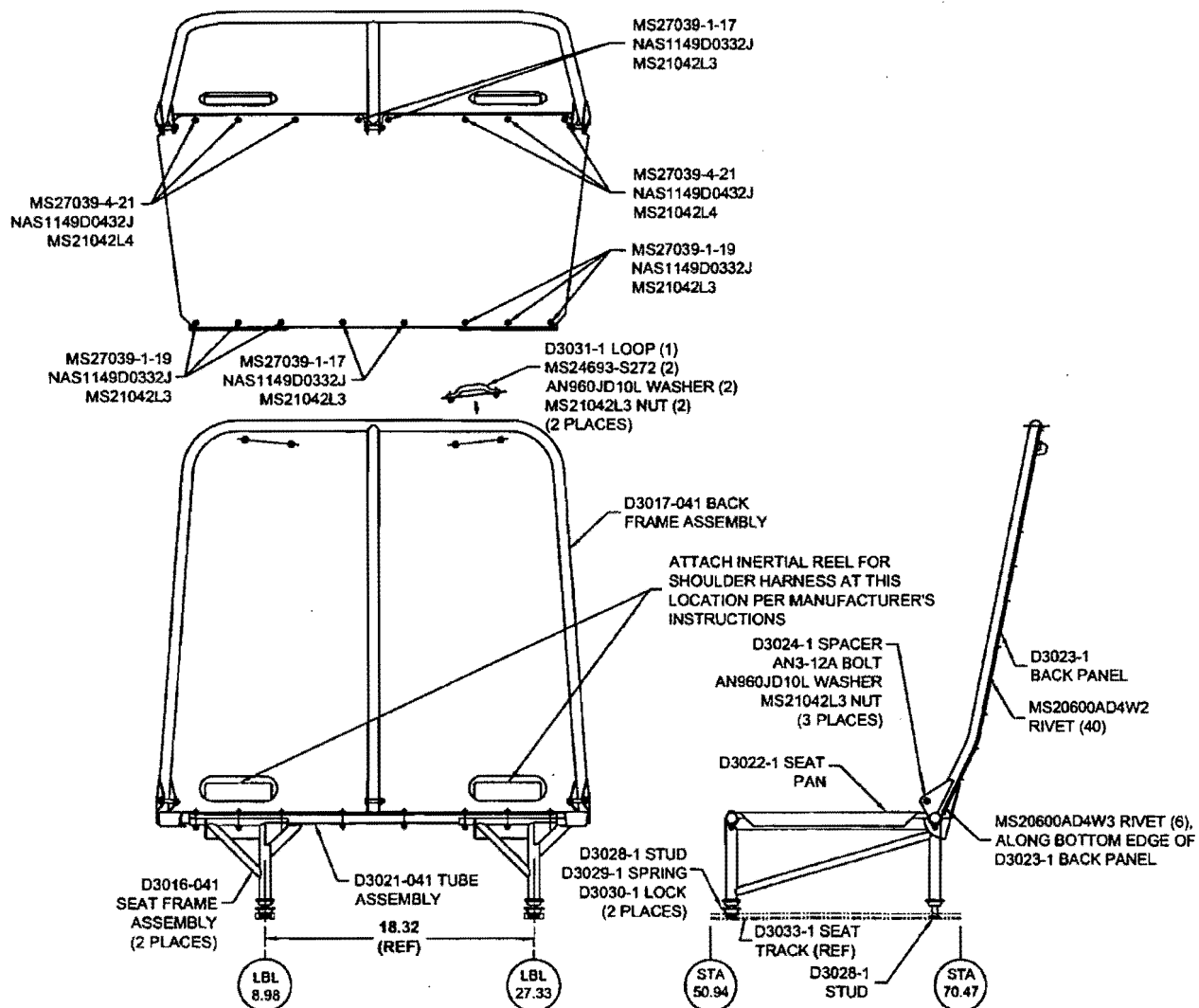
**NOTE:** Date & initial all entries



**CHANGE:**

THE FOLLOWING WEIGHT AND BALANCE INFORMATION IS FOR THE D350-689-011 DUAL HIGH BACK SEAT AT CHANGE 003 (OR LATER) AND THE D350-689-021 DUAL HIGH BACK SEAT AT CHANGE 002 (OR LATER).

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D350-689-011 Dual High Back Seat Installation	27.6 lb 12.5 kg	-18.2 in -0.46 m	-502 in-lb -5.8 m-k-g	60.7 in 1.54 m	1675 in-lb 19.3 m-k-g
D350-689-021 Dual High Back Seat Installation, LH Fwd Position	29.2 lb 13.2 kg	-18.2 in -0.46 m	-531 in-lb -6.1 m-k-g	60.7 in 1.54 m	1772 in-lb 20.3 m-k-g
D350-689-021 Dual High Back Seat Installation, LH Aft Position	29.2 lb 13.2 kg	-18.2 in -0.46 m	-531 in-lb -6.1 m-k-g	64.7 in 1.64 m	1889 in-lb 21.6 m-k-g

**REF FIGURE 6 (IIN-350-689)**

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED  
BY: *[Signature]*  
D. SHEPHERD (DE # 02)  
DATE: 10.01.21  
CERT. NO.: SH02-33  
ISSUE NO.: 1

DESIGN	<i>[Signature]</i>	<b>DART AEROSPACE LTD</b>	
DRAWN	<i>[Signature]</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9498	SHEET 2 OF 2
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	SEAT REINF; IIN & ICA UPDATE	NTS
DATE	10.01.21	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries